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Read December 1, 1769.

LVI. *Eclipses of Jupiter's First Satellite, with an Eighteen Inch Reflector of Mr. Short's. Observed by Dr. Wilson at the Glasgow Observatory.*

		Equal time.				Apparent.				
		h	'	"	'''	h	'	"	'''	
1762	Sept. 11 Im.	10	55	33	21	10	55	33	21	good.
	Oct. 4 Im.	11	1	58	—	11	13	22	21	good.
	Nov. 14 Em.	6	8	33		6	23	43	55	indifferent.
	21 Em.	8	1	31	38	8	16	39		good [ly clear.
1763	Oct. 23 Im.	12	50	24	—	13	5	56	53	good, air extreme.
	Nov. 1 Im.	9	12	18	43	9	28	29	18	good, like the for.
1764	Oct. 25 Im.	16	8	48	—	16	24	40		indif. good. [mer.
1765	Febr. 14 Em.	6	18	28		6	3	55		good.
	March 7 Em.	12	2	24		11	51	29		good.
	Nov. 29 Im.					15	53	26		indifferent.
	Dec. 22 Im.	15	54	4	—	15	54	25		indifferent.
1766	April 20	8	4	23	—	8	5	41	15	good.

Solar Eclipse.		h	'	"	h	'	"
1769	March 31 Beginning	20	58	16	20	54	15 9
	Gr. obl.	22	19	3	22	15	2
	End	23	46	55	23	42	52

1769	Nov. 6	Alt. of D's		Parts of 96.	
D's west. limb.	Merid.	under limb.		parts.	
	h ' "	o ' "		o " parts.	
	6 52 6	20 47 36+		22 1 14	

Ther.		
Barom.	without.	This is the only one of the
inches	o o	Moon since the quadrant
29,66	49 46	was in order.

N. B. The equation of time made use of, is taken from De la Caille's Ephemeris.

Obscr-

Observations of Eclipses of Jupiter's First Satellite, proper to be compared with the foregoing ones, in order to determine the Difference of Meridians of Greenwich and Glasgow. Communicated by the Astronomer Royal.

		App. time.				
		h / "				
1762	Sept. 11	Im.	11	12	43	Surry-street, 2 feet reflector. By N. Maskelyne.
	Oct. 4	Im.	11	31	1	Surry-street, 2 f. ref. Observed by J. Short.
	Nov. 3	Em.	15	56	57½	Greenwich, 6 f. ref. By C. Green.
	Nov. 12	Em.	12	10	56	Surry-str. 2 f. ref. By J. Short.
1763	Oct. 16	Im.	11	27	39	Surry-str. 2 f. ref. By J. Short.
	Nov. 1	Im.	9	45	25	Surry-str. 2 f. ref. By J. Short.
1764	Nov. 4	Im.	13	3	37	Greenwich, 2 f. ref. By C. Green.
	Nov. 10	Im.	14	57	11	Greenwich, 6 f. ref. By C. Green.
1765	Feb. 19	Em.	13	46	42	Greenwich, 6 f. ref. By C. Green, good observation.
	Dec. 1	Im.	10	40	11	Greenw. 18 inch ref.
	8	Im.	12	31	34	Greenw. 6 f. ref. Air very clear.
	15	Im.	14	22	3	Greenw. 6 f. ref.
	22	Im.	16	12	19	Greenw. 6 f. ref.
	24	Im.	10	39	27	Greenw. 6 f. ref.
1766	April 11	Em.	11	56	30	Greenw. 6 f. ref. By J. Dymond.

N. B. The late Mr. Short's house, in Surry-street, where some of the above observations were made, is $26\frac{1}{2}$ of time west of Greenwich.